




Aurel Xaver Appius

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 aurelappius

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EXPERIENCE

- **RAPTOR Focusproject**
Dynamics & Controls Engineer
Rapid Aerial Pickup and Transport of Objects by Robots
September 2021 - June 2022
- **ETH Zürich**
Teaching Assistant in Mechanics II
stresses, strains, displacements, linear-elastic bodies, beam theory, energy methods
Spring 2021 and Spring 2022
- **Swiss Armed Forces**
soldier, sergeant, squad leader, instructor, tank commander.
June 2018 - May 2019

EDUCATION

- **Exchange Student**
University of British Columbia (UBC)
Spring 2023
- **MSc Robotics, Systems and Control**
ETH Zürich
2022 - 2024
- **BSc Mechanical Engineering**
ETH Zürich
final grade: 5.84
2019 - 2022
- **Matura**
Kantonsschule Kreuzlingen
final grade: 5.6
2014 - 2018

CERTIFICATES

- **Leadership 1**
Swiss Association for Leadership Training
(SVF-ASFC)

AWARDS & HONORS

- **D-MAVT Outstanding Bachelor Award**
Best Bachelor Graduates
ETH Zürich
2022
- **ESOP Scholar**
Excellence Scholarship and Opportunity Programme
2022
- **D-MAVT Outstanding Bachelor Award**
Best First-Year Exams
ETH Zürich
2020
- **Distinction for the best Matura papers**
Stiftung Jugendförderung im Thurgau
2018

PUBLICATIONS

- **RAPTOR: Rapid Aerial Pickup and Transport of Objects by Robots**
<https://arxiv.org/abs/2203.03018>
- **Flying Hydraulically Amplified Electrostatic Gripper System for Aerial Object Manipulation**
<https://arxiv.org/abs/2205.13011>

LANGUAGES

- **German** 
C2 (Mother tongue)
- **English** 
C2 (Full Professional Proficiency)
- **French** 
~B2 (Military service in French)

VOLUNTEERING

- **Schweizerische Muskelgesellschaft**
Computer Camp Instructor
Showing young boys and girls with muscular atrophy the world of computers.(www.muskelgesellschaft.ch)
March 2017
- **GirlsCodeToo**
Robotics & CS Instructor
Teaching elementary school girls computer science and robotics. Working on closing the gender gap in STEM. (<https://girlscodetoo.ch/>)
September 2022 - now

SKILLS

- **Software**
MATLAB, Python, CMake, C++, Git, L^AT_EX, Siemens NX, Inkscape, Blender, ROS 1 & 2, Linux
- **Social**
communication, leadership, teamwork, motivation
- **Intellectual**
analytical & mathematical thinking, independent working, creative problem solving

OTHER HIGHLIGHTS

- Member of the Swiss Study Foundation
- Jugend+Sport ski instructor

HOBBIES & INTERESTS

sport jogging, tennis, volleyball, swimming, ski, hiking

music e-guitar, jam sessions with friends, trombone, orchestra

other cooking, camping, travelling, video-games, reading